	Application No.	Applicant(s)	
	Application No.		(, X
Notice of Allowability	09/848,397	DING ET AL.	
Notice of Allowability	Examiner	Art Unit	N
	Dah-Wei D. Yuan	1745	
The MAILING DATE f this communication appears All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 35) or other appropriate commu RIGHTS. This application is s	this application. If not incluinication will be mailed in du	ded e course. THIS
1. This communication is responsive to <u>11/18/03</u> .			
2. The allowed claim(s) is/are 25 and 27-29.			
3. The drawings filed on <u>03 May 2001</u> are accepted by the			
 4. ☐ Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the: 	vunder 35 U.S.C. § 119(a)-(d) c	or (f).	
 Certified copies of the priority documents have 			•
Certified copies of the priority documents have			
3. Copies of the certified copies of the priority	documents have been received	d in this national stage applic	ation from the
International Bureau (PCT Rule 17.2(a))			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority reference was included in the first sentence of the speci	y under 35 U.S.C. § 119(e) (to a fication or in an Application Dat	a provisional application) sin a Sheet. 37 CFR 1.78.	ce a specific
(a) The translation of the foreign language provisional		· ·	
6. Acknowledgment is made of a claim for domestic priority	y under 35 U.S.C. §§ 120 and/o	or 121 since a specific refere	nce was included
in the first sentence of the specification or in an Applicat	tion Data Sheet. 37 CFR 1.78.		
Applicant has THREE MONTHS FROM THE "MAILING DATE below. Failure to timely comply will result in ABANDONMENT	" of this communication to file a of this application. THIS THR	reply complying with the red EE-MONTH PERIOD IS NO	quirements noted T EXTENDABLE
7. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which of			NOTICE OF
8. \square CORRECTED DRAWINGS (as "replacement sheets") r			
(a) including changes required by the Notice of Draftsp	erson's Patent Drawing Review	(PTO-948) attached	
1) hereto or 2) to Paper No			-
(b) including changes required by the proposed drawin			
(c) including changes required by the attached Examin	ier's Amenament / Comment or	in the Office action of Paper	. No
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such	R 1.84(c)) should be written on the in the margin according to 37 CF	ne drawings in the front (not t R 1.121(d).	he back) of
9. DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT FOR	posit of BIOLOGICAL MATE R THE DEPOSIT OF BIOLOGIC	ERIAL must be submitted CAL MATERIAL.	. Note the
Attachment(s)			
1☐ Notice of References Cited (PTO-892)		ormal Patent Application (PT	
2 Notice of Draftperson's Patent Drawing Review (PTO-948	•	mmary (PTO-413), Paper No	D ·
3 Information Disclosure Statements (PTO-1449 or PTO/SB Paper No	^{3/08),} 7⊠ Examiner's A	mendment/Comment	
4	8⊠ Examiner's S	Statement of Reasons for Alle	owance
of Biological Material	9☐ Other .		

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Art Unit: 1745

FUEL CELL POWER PLANT WITH ELECTROCHEMICAL ENHANCED CARBON MONOXIDE REMOVAL

Examiner: Yuan

S.N. 09/848,397

Art Unit: 1745

December 3, 2003

Detailed Action

- 1. The Applicant's amendment filed on November 18, 2003 was received. Claims 1-24 were cancelled.
- 2. The text of those sections of Title 35, U.S.C. code not included in this action can be found in the prior Office Action mailed on February 3, 2003.

Examiner's Amendment

- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. Authorization for this examiner's amendment was given in a telephone interview with Mr. Randy Tung on December 3, 2003. The application has been amended as follows:

 Cancel claim 26.

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Claim Rejections

5. The claim rejections under 35 U.S.C. 112, first paragraph, on claims 1,4,10,12,20,26 are withdrawn because the claims have been canceled. The claim rejections under 35 U.S.C. 103(a) as obvious over Rehg et al. and Vayenas on claims 1,10,12 are withdrawn because the claims have been canceled. The claim rejections under 35 U.S.C. 103(a) as obvious over Rehg et al. and Yentekakis et al. on claims 1,4,10,12 are withdrawn because the claims have been canceled.

Reasons for Allowance

6. Claims 25,27-29 are allowed. The invention of independent claim 25 recites a fuel cell system comprising a source of hydrogen fuel, and a CO removal system using non-Faradaic electrochemical modification of catalyst activity, where the catalyst is selected from the group consisting of Cu/ZnO, Cu/CuO, ABO₃ (perovskite) and zeolite. The closest prior arts of record, Vayenas and Yentekakis, do not teach or suggest the use of the aforementioned catalysts in the CO removal system of a fuel cell system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dah-Wei D. Yuan whose telephone number is (703) 308-0766. The examiner can normally be reached on Monday-Friday (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (703) 308-2383. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Dah-Wei D. Yuan December 3, 2003

> Pátrick Ryan Supervisory Patent Examiner Technology Center 1700